



FIELD COMM GROUP™  
Connecting the World of  
Process Automation

## FIELD COMMUNICATION INSIDER

NEWS YOU CAN USE

May 2018

# Field Communication Insider

Amanda, *Field Communication Insider* is an e-newsletter featuring the latest news and developments in the application of HART, FOUNDATION Fieldbus and FDI technology around the world. To ensure that you continue to receive *Field Communication Insider*, please add [control\\_enews@putman.net](mailto:control_enews@putman.net) to your address book and [subscribe here](#).

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## NEWS

### New Video Describes FDI's Essential Role in Digital Transformation

At the 2018 ARC Forum, conducted February 12-15 in Orlando, Florida, Ted Masters, president & CEO of FieldComm Group, spoke with Harry Forbes, research director for ARC Advisory Group about the digital transformation of the process industries and FieldComm Group's place in it. [Read more.](#)

### FieldComm Group to Display at Honeywell Users Group in San Antonio

FieldComm Group will present a display of its digital transformation technologies for the process industries at the 2018 Honeywell Users Group (HUG) Americas Conference, to be held June 17-22 at the JW Marriott San Antonio Resort and Spa in San Antonio, Texas. [Read more.](#)

### FieldComm Group Technologies to Take Center Stage at ACHEMA

At this year's ACHEMA Fair in Frankfurt, Germany, FieldComm Group technologies will have high visibility amongst attendees. [Read more.](#)

### Don't Delay – Submit 2018 Plant of the Year Award Nominations Today

It's that time of year again. End users and manufacturers in the industrial automation sector can nominate their plant or customer's plant for FieldComm Group's prestigious Plant of the Year Award. Entries must be submitted by May 31st. [Read more.](#)

## TECHNOLOGY

### First 2018 Webinar Covers Field Communications and NAMUR Open Architecture

FieldComm Group's first webinar of its 2018 Webinar Series reviewed its ongoing collaboration with the NAMUR organization to advance open information integration and enterprise data exchange. [Read more.](#)

### Latest Registered FOUNDATION Fieldbus and HART Products

The number of FOUNDATION Fieldbus and HART products registered by the FieldComm Group continues to grow. [Read more.](#)

## WIRELESSHART CORNER

### WirelessHART Transmitters Enable Process Monitoring at Mine Site

WirelessHART transmitters make it possible to monitor remote injection wells to protect the environment, increase efficiency and improve productivity. [Read more.](#)

## PRODUCTS

### New product news you might be interested in:

- [Emerson's Rosemount 8712EM Wall Mount Magnetic Flow Meter Transmitter](#)
- [FCI's MT100 Series Multipoint Flow Meters](#)
- [Moore Industries' HIX and HIT HART Isolators](#)
- [ProComSol's Mobile HART Communicator iOS App](#)
- [Softing's mobiLink](#)
- [Yokogawa's STARDOM FCN-500 process control PLC](#)

### SIL 3 Capable SSX & SST Safety Isolators

Moore Industries' SSX and SST Safety Isolators and Splitters provide reliable isolation and pass valuable HART® data in Safety Instrumented Systems (SIS) and process control settings. They isolate an SIS from basic process control systems so that disconnections or other failures don't impact the safety system. While most isolators "strip off" HART data, the SSX and SST pass along HART data to asset management systems, programming devices or host systems.

[Learn more.](#)



## CALENDAR

### Upcoming Events

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#### North America

##### **Honeywell User Group**

San Antonio, Texas, USA  
June 18-22, 2018

[» More Information](#)

##### **Smart Industry**

Chicago, Illinois, USA  
September 24-26, 2018

[» More Information](#)

##### **Emerson Exchange**

San Antonio, Texas, USA  
October 1-5, 2018

[» More Information](#)

##### **Rockwell Automation Fair**

Philadelphia, Pennsylvania, USA  
November 12-13, 2018

[» More Information](#)

#### Europe, Middle East, Africa (EMEA)

##### **ACHEMA**

Frankfurt, Germany  
June 11-15, 2017

[» More Information](#)

##### **FieldComm Group Working Group Meeting**

Barcelona, Spain  
July 16-20, 2018

[» More Information](#)

##### **SPS Drives**

Nuremberg, Germany  
November 27-29, 2018

[» More Information](#)

#### India

##### **Mumbai Automation Expo**

Mumbai, India  
August 29-September 1, 2018

[» More Information](#)

#### Asia Pacific

##### **M&C Show**

Osaka, Japan  
November 7-9, 2018

[» More Information](#)

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## New Video Describes FDI's Essential Role in Digital Transformation

Ted Masters talks digital transformation with Harry Forbes at the 2018 ARC Forum

By FieldComm Group

May 23, 2018



At the 2018 ARC Forum, conducted February 12-15 in Orlando, Florida, Ted Masters, president & CEO of FieldComm Group, spoke with Harry Forbes, research director for ARC Advisory Group about the digital transformation of the process industries and FieldComm Group's place in it.

The discussion, included in a new YouTube video, explained how current developments such as the Industrial Internet of Things (IIoT) and Industry 4.0 are focused on digital transformation of the field device network. This effort will help industrial organizations transition from reactive to predictive maintenance and optimize asset management strategies to improve operations and reduce costs. The goal is to use digitally available information from existing, installed field instruments to improve safety, operations, and reliability.



"Historically, it has been very complicated and difficult to get valuable information out of devices and into systems where it is needed," Masters said. "Moreover, modern initiatives like IIoT demand standardization from the device protocol level all the way up to the cloud. FieldComm Group is addressing these challenges with solutions like the FDI standard, which helps simplify device integration. FDI brings data, regardless of the supplier or protocol, into the host system in a very standardized way."

Masters also described common issues with field device management and the ongoing development of a standard process automation device information model.

*To view the ARC Forum interview, please visit FieldComm Group's [YouTube](#) page.*

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## FieldComm Group to Display at Honeywell Users Group in San Antonio

FieldComm Group display will focus on technology initiatives

By FieldComm Group

May 23, 2018



FieldComm Group will present a display of its digital transformation technologies for the process industries at the 2018 Honeywell Users Group (HUG) Americas Conference, to be held June 17-22 at the JW Marriott San Antonio Resort and Spa in San Antonio, Texas.

The FieldComm Group display at HUG will focus on technology initiatives providing the means to connect and integrate digital information. FOUNDATION Fieldbus, HART and WirelessHART devices can be the basis for digitization supporting Industrial Internet of Things (IIoT) initiatives. At the same time, the FDI standard greatly simplifies device integration and takes account of the various tasks over the entire lifecycle for both simple and the most complex devices, including configuration, commissioning, diagnostics, and calibration.

“By delivering meaningful information where and when it is needed most across the enterprise, IIoT and Industry 4.0 open up new possibilities for safety, productivity, organizational responsiveness and, ultimately, profitability. One of the key reasons for their growth and popularity has been open standards such as FOUNDATION Fieldbus and WirelessHART,” said Talon Petty, FieldComm Group marketing and business development manager. “HUG 2018 attendees can learn how a smart connected device ecosystem makes it possible to address performance, reliability, safety, and environmental problems that have yet to be solved by traditional approaches.”



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## FieldComm Group Technologies to Take Center Stage at ACHEMA

FieldComm Group's exhibit will demonstrate how a smart connected device ecosystem transforms project engineering, plant operations, asset management and more.

By FieldComm Group

May 23, 2018



At this year's ACHEMA Fair in Frankfurt, Germany, FieldComm Group technologies will have high visibility amongst attendees. Visitors to the event will see how FOUNDATION Fieldbus, HART, WirelessHART, HART-IP and Field Device Integration (FDI) solutions support the new era of automation, including the Industrial Internet of Things (IIoT), Industry 4.0 and other efforts driving digital transformation in the process industries.



Slated for June 11-15, ACHEMA is a globally renowned trade fair and congress dedicated to chemical engineering, biotechnology and environmental protection. The event is held every three years and attracts more than 3,800 exhibitors and nearly 167,000 visitors from around the world.

FieldComm Group's exhibit (Hall 11, Stand E44) will demonstrate how a smart connected device ecosystem transforms project engineering, plant operations, asset management, and more. Specifically, visitors to the booth will learn how the FDI standard simplifies device integration and optimizes key tasks such as configuration, commissioning, diagnostics, and calibration.

FieldComm Group's exhibit will also feature a presentation on the future technology and standards for an advanced physical layer for Industrial Ethernet (commonly referred to as "APL") that is intended for use in critical applications in process instrumentation.

In addition, the booth area will include individual company kiosks sponsored by leading automation suppliers supporting open and interoperable standards.

FieldComm Group members are invited to participate in the ACHEMA 2018 exhibits. To learn more about product/solution display opportunities and related activities, please call (512) 792-2300 or email [marketing@fieldcommgroup.org](mailto:marketing@fieldcommgroup.org).

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## Don't Delay – Submit 2018 Plant of the Year Award Nominations Today

Entries must be submitted by May 31

By FieldComm Group

May 23, 2018



It's that time of year again. End users and manufacturers in the industrial automation sector can nominate their plant or customer's plant for FieldComm Group's prestigious Plant of the Year Award. Entries must be submitted by May 31st.



Now in its 17th year, FieldComm Group's Plant of the Year Award is the only international award recognizing process industry end users for their exemplary application of FOUNDATION Fieldbus, Field Device Integration (FDI) and/or HART Communication technologies.

For 2018, the Plant of the Year nominating process includes enhanced incentives:

- Submitter of the award recipient will receive a Surface Pro
- \$1,000 credit towards annual FieldComm Group membership fee
- Google Home will be awarded at random to another entrant
- All approved user entrants will receive a free one-year membership with FieldComm Group
- Award plaque to display at the winning plant
- Official award presentation by FieldComm Group management at an on-site event at the facility
- Opportunity to receive the award at a major industry event at no cost to the recipient
- Global industry exposure via press releases, articles and other publicity

FieldComm Group's Plant of the Year award is bestowed on plants that have demonstrated significant savings and benefits by making a digital transformation utilizing the information available in smart measuring devices.



*For more information, including nomination forms, program details and company success stories, please visit the [Plant of the Year](#) Award page on the FieldComm Group website.*

[Home](#) / [Articles](#) / **2018** / First 2018 Webinar Covers Field Communications and NAMUR Open Architecture

## First 2018 Webinar Covers Field Communications and NAMUR Open Architecture

Attendees learned how emerging high-speed protocols and standards require a leadership-driven culture change

By FieldComm Insider

May 23, 2018



In the era of the Industrial Internet of Things (IIoT) and Industrie 4.0, device and system integration will be paramount to seamless operation. FieldComm Group's first webinar of its 2018 Webinar Series reviewed its ongoing collaboration with the NAMUR organization to advance open information integration and enterprise data exchange. Webinar attendees learned how emerging high-speed protocols and standards require a leadership-driven culture change.

Presented on Tuesday, May 22, the initial webinar featured Ted Masters, president and CEO, FieldComm Group; and Alex Kaiser, head of product management and marketing, CodeWrights. Their discussion centered on new high-speed field communication, NAMUR Open Architecture and what role they play in IIoT and the 4th industrial revolution in the process industries.



Specific webinar topics included:

- FDI integration technology and what it means to suppliers and end users
- NAMUR Open Architecture and its implications for IIoT
- FDI and OPC UA enabling device data flow to the cloud
- Advanced Physical Layer and Time Sensitive Networks (TSN)

The webinar is available on demand for further viewing on the FieldComm Group website.

For more information and registration, please visit the [Webinar Registration Page](#) on the FieldComm Group website

## Latest Registered FOUNDATION Fieldbus and HART Products

The number of FOUNDATION Fieldbus and HART products registered by the FieldComm Group continues to grow

By FieldComm Group

May 23, 2018



### New Registered Devices

Protocol	Manufacturer	Type	Model/Device Name
FOUNDATION Fieldbus	ABB Automation Products GmbH	Level Meter	LMT100/200/300
HART	DVG Automation SPA	Valve Positioner	ITVC intelligent total valve control
HART	General Monitors Inc.	Flame Detector	FL500
FOUNDATION Fieldbus	Honeywell International	FMCW Radar Level Meter	SmartLine RM77
FOUNDATION Fieldbus	Phoenix Contact	HART to FOUNDATION Fieldbus Gateway	2316360 GW PL FF/HART
FOUNDATION Fieldbus	Schneider Electric	Absolute, Gauge and Differential Pressure Transmitters	IGP50S-F Premium Performance

FOUNDATION Fieldbus	Schneider Electric	Absolute, Gauge and Differential Pressure Transmitters	IGP10S-F Advanced Performance
			Published Site
FOUNDATION Fieldbus	Schneider Electric	Absolute, Gauge and Differential Pressure Transmitters	IAP50S-F Premium Performance
FOUNDATION Fieldbus	Schneider Electric	Absolute, Gauge and Differential Pressure Transmitters	IAP10S-F Advanced Performance
FOUNDATION Fieldbus	Schneider Electric	Absolute, Gauge and Differential Pressure Transmitters	IDP50S-F Premium Performance
FOUNDATION Fieldbus	Schneider Electric	Absolute, Gauge and Differential Pressure Transmitters	IDP10S-F Advanced Performance
HART	Schneider Electric Systems USA, Inc.	Pressure Transmitter	Absolute and Gauge and Differential Pressure Transmitters
FOUNDATION Fieldbus	Supcon Group Co. Ltd.	Fieldbus Spur Protector	FPS100 Series
Updated Registered Devices			

Protocol	Manufacturer	Type	Model/Device Name
FOUNDATION Fieldbus	Phoenix Contact	Modbus to FOUNDATION Fieldbus Gateway	2316363 GW PL FF/MODBUS
HART	Rosemount	Level and Interface Transmitter	3308A Wireless Guided Wave Radar Level & Interface Transmitter
Updated Electronic Device Description (EDD)			

Protocol	Manufacturer	Type	Model/Device Name
FOUNDATION Fieldbus	Flowserve Corporation	Valve Positioner	Logix 3800

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## WirelessHART Transmitters Enable Process Monitoring at Mine Site

*Wireless*HART transmitters make it possible to monitor remote injection wells to protect the environment, increase efficiency and improve productivity

By FieldComm Group

May 23, 2018



Natural Soda recovers sodium bicarbonate using a process known as solution mining. This involves pumping heated water 1,900 feet underground to dissolve nahcolite beds and form a brine solution that is pumped to the surface and sent to the production plant.

Mining nahcolite requires very careful monitoring of temperature, pressure and flow to not only optimize production performance, but to mine the product sustainably and protect the freshwater aquifer. *Wireless*HART transmitters make it possible to monitor remote injection wells to protect the environment, increase efficiency and improve productivity.

Natural Soda's facility is located in mountainous and rugged terrain, and as such, it is very difficult and expensive to employ wired devices. Some of the wells are more than a mile from the production plant. Installing wire and conduit the entire distance from the well fields to the DCS is cost-prohibitive. Instead, engineers installed a wireless I/O card (WIOC) in one of the DCS racks. It receives *Wireless*HART data and transfers it to the DCS. The cost of installing the WIOC was a fraction of the price of hard wiring, and it was installed within the required timeline, saving time and reducing capital expenses.



The most important result of using *WirelessHART* flow, pressure, and temperature transmitters at the well pads is that operators can confidently deliver expected production results with no leakage into the freshwater aquifer. The system works flawlessly to protect the environment.

Not only did *WirelessHART* transmitters help meet regulatory requirements, but they also cut maintenance costs because the system has no fuses or power supplies, and no wires. *WirelessHART* status and diagnostic information indicates if any transmitter has a problem, and the system alerts the operators accordingly. If a problem does occur with any transmitter, technicians can go right to the device and troubleshoot with a HART communicator. A laptop is not required in the field for maintenance.

Natural Soda intends to keep expanding, and its *WirelessHART* infrastructure will make it easy. Future plans call for installation of asset management software to enhance troubleshooting, including the installation of pump and motor health management hardware and software. The WIOC will accommodate additional well pads and wireless transmitters, which is very important, because the company plans to expand production and add wireless monitoring of tank levels in the future.



Home / Articles / 2018 / Emerson's Magnetic Flow Meter Transmitter Simplifies Installation, Maintenance and Operation

## Emerson's Magnetic Flow Meter Transmitter Simplifies Installation, Maintenance and Operation

Emerson has introduced the Rosemount 8712EM Wall Mount Magnetic Flow Meter Transmitter

By FieldComm Group

May 23, 2018



Emerson has introduced the Rosemount 8712EM Wall Mount Magnetic Flow Meter Transmitter with additional protocols, powerful diagnostic capabilities and usability features to help users in the water and wastewater, metals and mining, and other industries gain quick and easy insight into their processes.

The meter's local operator interface was designed using human centered design concepts, making it easier and faster for technicians to navigate in the field.

The instrument's diagnostic suite includes high process noise detection and ground fault detection. The electrode coating diagnostic offers two set points to alert when coating is present and when it is affecting flow measurement, enabling preventative maintenance. Smart Meter Verification continuously monitors the health and performance of the meter for ultimate measurement confidence.

Universal transmitter capability allows the 8712EM to operate with any existing magnetic flow meter sensor and allows backwards compatibility with all Rosemount magnetic sensors. This feature not only makes the transmitter easier to integrate with older units, but it also enables the use of the 8712EM's advanced diagnostic features. The 8712EM supports HART 7 for 32-character-long tag capability for reduced start up time, as well as options for intrinsically safe HART outputs and Modbus RS-485.



For more information, please visit the [Emerson](#) website.

Home / Articles / 2018 / FCI's New Air/Gas Flow Meters Intended for Large Diameter Pipes/Stacks/Ducts

## FCI's New Air/Gas Flow Meters Intended for Large Diameter Pipes/Stacks/Ducts

Fluid Components International (FCI) introduced MT100 Series Multipoint Flow Meters

By FieldComm Group

May 23, 2018



Fluid Components International (FCI) breakthrough MT100 Series Multipoint Flow Meters are ideal for optimizing boiler or furnace combustion air feed line flow, stack emissions monitoring (US EPA CEMS compliance), flue gas/scrubber balancing, HVAC duct air flow control and any air/gas flow applications in pipe diameters 20 inches [500 mm] and larger, and square/rectangular ducts. These flow meters feature FieldComm Group registered and certified HART and FOUNDATION Fieldbus bus communications and DD files. Utilizing FCI's industry leading thermal dispersion technology, these instruments provide direct mass flow measurement via simple insertion of a mast style flow element with multiple sense points or multiple, single point flow elements. The flow elements have no moving parts or orifices to break, clog or foul, resulting in superior, long-term reliable operation with virtually zero maintenance.



MT100s feature a wide flow range with 100:1 turndown, accuracy to  $\pm 0.75\%$  of reading,  $\pm 0.5\%$  of full scale, temperature service up to 850°F (454 °C), multiple analog and digital outputs, large graphical color LCD touch-type display, data logging, calibration self-checks and diagnostics to provide a complete solution for process flow control or emissions reporting.

For more information, please visit the [FCI website](#).

## Moore Industries Offers Economical and Versatile HIX/HIT HART Isolators

HIX and HIT allow HART data to pass bi-directionally while providing isolation and noise immunity

By FieldComm Group

May 23, 2018



Moore Industries' HIX and HIT HART® Isolators provide highly economical solutions to common and costly problems that plague many of today's "smart" process loops. Protect and enhance your HART investment with the 2-wire (loop powered) HIX or the 4-wire (line-mains powered) HIT. Unlike standard isolators that block or strip off the HART signal, the HIX and HIT allow HART data to pass bi-directionally while providing the isolation and noise immunity your plant needs.

Safely share the HART output of one transmitter with a secondary control or recording device. This allows for redundancy without further burden on – or risk to – a process loop.



Minimize stocking requirements at your facility by standardizing on these HART pass through isolators. Other isolators will block the HART signal on newer loops with HART transmitters and upgraded DCS smart input cards that need to have access to HART data.

Perform equipment maintenance without loop downtime with area isolation. Placing current-driven or HART devices on isolated legs of a loop makes it possible to remove those instruments from the circuit without affecting the primary process loop.

For more information, please visit the [Moore Industries website](#).

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## ProComSol Delvers Mobile HART Communicator iOS App

A full-featured HART Communicator App is now available for your iPhone or iPad

By FieldComm Group

May 23, 2018



A full-featured HART Communicator App is now available for your iPhone or iPad. Because the App uses the Device Descriptors (DD) for the connected HART instrument, all instrument parameters including Methods are available to the user. The full DD library is also included.

*For more information, please visit the [ProComSol, Ltd. website](#).*

Device Model: PR 5335

DD: /00006d/00ef/0101.fms Connected

Online

Device setup

PV	77.86	degF
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Electr	77.85	degF
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PV AO	4.00	mA
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PV % rng	25.02	%
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Home / Articles / 2018 / Softing Introduces Mobile Multiprotocol interface for Field Device Configuration

## Softing Introduces Mobile Multiprotocol interface for Field Device Configuration

mobiLink communicates via USB or Bluetooth and is suited for commissioning and maintenance with handheld host devices

By FieldComm Group

May 23, 2018



With mobiLink, Softing is the first company to offer access to the major process automation protocols FOUNDATION Fieldbus, HART and PROFIBUS PA with one single interface. mobiLink communicates via USB or Bluetooth and is perfectly suited for commissioning and maintenance with handheld host devices.

Softing's mobiLink simplifies mobile access to field devices for plant operators, system integrators, device developers and other users in the process industries. In combination with the relevant software (e.g., Softing's Communication Configurator), it is suitable for configuration, commissioning, diagnostics and monitoring. mobiLink supports FDT Frame Applications and major engineering tools. It allows access to FOUNDATION Fieldbus and HART devices such as transmitters or valves. Access to PROFIBUS PA devices will be possible on July 1, 2018. mobiLink is battery-operated, extremely robust and suitable for use in explosive areas. It communicates with handheld host devices like smart phones and tablets via Bluetooth and has a USB interface for bench host operation.



Visit Softing at the ACHEMA Trade Fair, June 11-15, 2018, at the Fieldcomm Group Pavilion, Hall 11.0, Stand E44.

For more information, please visit the [Softing website](#).



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## Yokogawa Process Control PLC: Further Distance and More I/O Points

Yokogawa introduces STARDOM FCN-500

By FieldComm Group

May 23, 2018



Thanks to new I/O extension module, Yokogawa's process control PLC "STARDOM FCN-500" provides accurate measurement, reliable control, and asset management capabilities in a widespread area using FOUNDATION Fieldbus and HART communications.

For more information, please visit the [Yokogawa](#) website.

